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PUBLIC HEALTH REPORTS

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THE NOTIFIABLE DISEASES.

THEIR PREVALENCE IN CITIES DURING 1912.

DIPHTHERIA, MALARIA, MEASLES, EPIDEMIC CEREBROSPINAL MENINGITIS, POLIOMYELITIS (INFANTILE PARALYSIS), SCARLET FEVER, SMALLPOX, TUBERCULOSIS, TYPHOID FEVER, LEPROSY, AND RABIES—CASES REPORTED, CASE RATES PER 1,000 POPULATION, AND FATALITY RATES PER 100 CASES.

[Compiled by direction of the Surgeon General.]

The tables which follow were made up from information furnished to the Surgeon General of the Public Health Service by the health officers of the cities included. The information was requested from the health departments of all cities in the continental United States having a population of 100,000 or more at the 1910 census. The absence of a city from a table does not necessarily mean that there were no cases in that city. In some instances it simply indicates that the city health department either had no record of the prevalence of the disease or failed to furnish the information. Similar tables for those States able to furnish information of the prevalence of these diseases within their respective jurisdictions for the year 1912 were published in the Public Health Reports, volume 29, No. 3, January 16, 1914, and reprinted as reprint No. 163. The State tables are recommended for study in connection with the ones here given for cities.

Abbreviated tables have been prepared showing the cities reporting the highest and lowest case rates; also the highest and lowest case fatality rates. The higher notified case rates may be due to some extent to the fact that the health department has been successful in securing complete notification of cases, while a low case rate may simply mean that the health department has not attempted to secure complete notification of cases or has been unsuccessful in its attempts. However, when in conjunction with the case rates the fatality rates are considered some hint is given as to the significance of the former.

An unusually high case fatality rate may mean one of three things: First, that the notification of cases has been less complete than the registration of deaths; second, that the disease has been of unusual

virulence; or, third, that the practicing physicians treat the disease less successfully than is customary in other cities. On the other hand, low case fatality rates may also be presumed to signify one of three things, or a combination of the three, namely: First, that the health department has secured a satisfactorily complete notification of cases; second, that the disease has been mild and of low virulence; or, third, that the practicing physicians treat the disease with success above the average.

Diphtheria.

In the following table especial attention is invited to the low case fatality rates in Salt Lake City, Denver, and Rochester, and particularly to the exceedingly low rate in Salt Lake City, where there were over 50 cases of diphtheria reported for each death recorded:

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Grand Rapids, Mich.....	8.46	Spokane, Wash.....	0.54
Dayton, Ohio.....	4.83	Omaha, Nebr.....	.67
Cleveland, Ohio.....	4.36	San Francisco, Cal.....	.75

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Toledo, Ohio.....	15.56	Salt Lake City, Utah.....	1.88
Fall River, Mass.....	15.47	Denver, Colo.....	3.18
New Bedford, Mass.....	15.20	Rochester, N. Y.....	3.23

Measles.

Attention is invited to the case fatality rates in Richmond, Salt Lake City, and Indianapolis, and especially in Richmond, where there were 851 cases reported with only 1 death. The returns in measles for Richmond are perhaps as accurate as those for any city in the United States. In fact, it is possible that they are more accurate than those of any other city, for the health department has for a number of years paid particular attention to the prevalence of measles and has gone to pains to investigate all cases and suspicious cases, and also all deaths and suspicious deaths, including those of broncho-pneumonia, so that both the case returns and the death returns are unusually carefully controlled.

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Indianapolis, Ind.....	14.40	Nashville, Tenn.....	0.18
Salt Lake City, Utah.....	10.61	Omaha, Nebr.....	.20
Cambridge, Mass.....	9.42	Fall River, Mass.....	.25

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Providence, R. I.....	15.65	Richmond, Va.....	0.12
Trenton, N. J.....	11.86	Salt Lake City, Utah.....	.18
Bridgeport, Conn.....	6.25	Indianapolis, Ind.....	.33

Meningitis (Epidemic Cerebrospinal).

Of special interest in the following table are the low case fatality rates in San Francisco, Omaha, and Nashville, and especially in San Francisco, where there were 5 cases reported for each death:

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Nashville, Tenn.....	0.86		
Cincinnati, Ohio.....	.20		
Denver, Colo.....	.12		

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
		San Francisco, Cal.....	20.00
		Omaha, Nebr.....	40.00
		Nashville, Tenn.....	47.42

Poliomyelitis (Infantile Paralysis).

In the following table the fatality rate in St. Louis is of special interest, being a little less than 5.5 per cent. This probably indicates an unusual interest on the part of the health department and the attainment of satisfactory notification. It may, however, mean that the form of the disease present was unusually mild.

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Los Angeles, Cal.....	0.663	Richmond, Va.....	0.008
Cleveland, Ohio.....	.189	Albany, N. Y.....	.009
New York, N. Y.....	.099	Columbus, Ohio.....	.010

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Albany, N. Y.....	100.00	St. Louis, Mo.....	5.40
Newark, N. J.....	70.00	New Orleans, La.....	11.11
Cincinnati, Ohio.....	62.50	San Francisco, Cal.....	12.50

Scarlet Fever.

In this table also the main point of interest is in the low fatality rates in Richmond, San Francisco, and Lowell, Richmond having had 326 cases with only 1 death.

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Lowell, Mass.....	8.026	San Francisco, Cal.....	0.443
Syracuse, N. Y.....	4.269	Omaha, Nebr.....	.466
Hartford, Conn.....	3.799	Seattle, Wash.....	.501

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Omaha, Nebr.....	10.00	Richmond, Va.....	0.31
Chicago, Ill.....	6.92	San Francisco, Cal.....	.52
Rochester, N. Y.....	6.88	Lowell, Mass.....	.69

Smallpox.

There are several points of interest about this table. One is that it is possible for the disease to be as prevalent in cities as is shown by the case rates. This is especially true when we consider that smallpox is one of the most readily and surely controllable diseases the health department has to deal with, and its possibility of control has been

repeatedly demonstrated so clearly that its meaning is readily understood even by school children. The manner in which the disease has been wiped out of the Philippines and Cuba, as well as other places, where at one time it was exceedingly common and levied a large tax in sickness and deaths, is familiar to health officials.

The high fatality rates indicate the presence of the virulent form of the disease. The low fatality rates signify that it was the mild form that was present. The range between the fatality rates of the virulent form, such as existed in Philadelphia and Chicago, with rates of 10 and 11 per cent, and of the mild form in Salt Lake City and St. Paul, with rates of 0.11 and 0.16 per cent, is of especial interest. In Philadelphia the 1 death represented 9 cases; in Chicago the 1 death represented 11 cases. On the other hand, in Salt Lake City 1 death represented 885 cases and in St. Paul 636 cases.

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Salt Lake City, Utah.....	8.745	New York, N. Y.....	0.004
St. Paul, Minn.....	2.388	Philadelphia, Pa.....	.006
Spokane, Wash.....	2.339	Grand Rapids, Mich.....	.009

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Philadelphia, Pa.....	11.11	Salt Lake City, Utah.....	0.11
Chicago, Ill.....	10.29	St. Paul, Minn.....	.16
Cleveland, Ohio.....	9.09	San Francisco, Cal.....	.95
New York, N. Y.....	9.09	Richmond, Va.....	2.70

Tuberculosis.

Of particular interest in this table are the low fatality rates of Hartford, Boston, and Newark, in which approximately 3 cases were reported for each death. These rates are in all probability due to the success of the health department in getting cases reported.

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Newark, N. J.....	4.701	Scranton, Pa.....	0.530
Boston, Mass.....	4.671	Spokane, Wash.....	.595
New York, N. Y.....	4.493	Grand Rapids, Mich.....	1.075

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Richmond, Va.....	96.11	Hartford, Conn.....	27.78
Lowell, Mass.....	94.02	Boston, Mass.....	32.90
Nashville, Tenn.....	91.35	Newark, N. J.....	37.02

Typhoid Fever.

In this table both the case rates and fatality rates are of particular interest. The high fatality rates simply mean the unsatisfactory notification of cases. The low fatality rates probably mean the satisfactory notification of cases rather than an unusually mild form of the disease. The low fatality rates of Hartford and Denver, being approximately 5 and 6 per cent, respectively, probably represent a fairly close approximation to the usual fatality rate of the disease, if there be such a usual rate.

Case rates per 1,000 inhabitants.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Birmingham, Ala.....	3.261	Jersey City, N. J.....	0.210
Grand Rapids, Mich.....	2.674	Rochester, N. Y.....	.386
Denver, Colo.....	2.163	Cleveland, Ohio.....	.454

Fatality rates per 100 cases.

Highest.		Lowest.	
Cities.	Rates.	Cities.	Rates.
Dayton, Ohio.....	39.29	Hartford, Conn.....	5.26
Syracuse, N. Y.....	26.09	Denver, Colo.....	6.02
Rochester, N. Y.....	25.84	Worcester, Mass.....	7.14

Reported Prevalence for the Year 1912 in Certain Cities.**DIPHTHERIA.**

Cities.	Estimated population July 1, 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
Over 500,000 inhabitants:					
Boston, Mass.....	711,128	1,539	102	2.164	6.62
Chicago, Ill.....	2,294,711	7,288	950	3.175	13.03
Cleveland, Ohio.....	596,970	2,605	166	4.363	6.37
Detroit, Mich.....	503,445	1,436	189	2.852	13.16
New York, N. Y.....	5,064,237	13,533	1,125	2.672	8.31
Philadelphia, Pa.....	1,606,102	3,080	373	1.917	12.11
St. Louis, Mo.....	712,027	12,548	170	3.578	6.67

¹ From Apr. 1, 1912, to Mar. 31, 1913.

Reported Prevalence for the Year 1912 in Certain Cities—Continued.

DIPHTHERIA—Continued.

Cities.	Estimated population 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.....	387,543	638	60	1.646	9.40
Los Angeles, Cal.....	386,014	433	25	1.121	5.77
Milwaukee, Wis.....	400,279	751	102	1.876	13.58
Newark, N. J.....	369,317	1,098	91	2.973	8.28
New Orleans, La.....	350,695	1,072	58	3.056	5.41
San Francisco, Cal.....	433,488	326	28	752	8.58
Washington, D. C.....	342,776	393	15	1.146	3.81
From 200,000 to 300,000 inhabitants:					
Denver, Colo.....	230,249	377	12	1.637	3.18
Indianapolis, Ind.....	246,928	633	35	2.563	5.52
Jersey City, N. J.....	281,497	391	75	1.389	8.84
Providence, R. I.....	235,222	848	16	3.605	3.23
Rochester, N. Y.....	230,414	495	23	2.148	5.86
St. Paul, Minn.....	266,300	392	11	1.472	4.91
Seattle, Wash.....	277,420	224		.807	
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.....	101,726	328	29	3.224	8.84
Atlanta, Ga.....	167,041	1,280	22		
Birmingham, Ala.....	150,249	220	14	1.464	6.36
Bridgeport, Conn.....	108,999	131	17	1.201	12.97
Cambridge, Mass.....	107,734	264	26	2.450	9.84
Columbus, Ohio.....	193,822	415	39	2.141	9.39
Dayton, Ohio.....	120,364	582	43	4.835	7.38
Fall River, Mass.....	122,521	168	26	1.371	15.47
Grand Rapids, Mich.....	118,163	100	10	8.462	10.00
Hartford, Conn.....	103,177	342	37	3.314	10.81
Lowell, Mass.....	108,768	140	16	1.287	11.42
Nashville, Tenn.....	112,774	91	7	.806	7.69
New Bedford, Mass.....	104,302	125	19	1.198	15.20
Omaha, Nebr.....	128,912	87	11	.674	12.64
Richmond, Va.....	131,453	206	8	1.567	3.88
Salt Lake City, Utah.....	101,207	159	3	1.571	1.88
Spokane, Wash.....	120,994	66	5	.545	7.57
Syracuse, N. Y.....	143,602	422	24	2.938	5.68
Toledo, Ohio.....	176,798	379	59	2.144	15.56
Trenton, N. J.....	102,071	135	14	1.322	10.37
Worcester, Mass.....	152,150	411	26	2.701	6.32

MALARIA.

Over 500,000 inhabitants:					
Boston, Mass.....	711,128	42	1		
Chicago, Ill.....	2,294,711		5		
Cleveland, Ohio.....	596,970	13	2		
Detroit, Mich.....	503,445		3		
New York, N. Y.....	5,064,237	120	20		
Philadelphia, Pa.....	1,606,102	47	3		
St. Louis, Mo.....	712,027		23		
From 300,000 to 500,000 inhabitants:					
Los Angeles, Cal.....	386,014	(1)	2		
Newark, N. J.....	369,317	39	2		
New Orleans, La.....	350,695	(1)	29		
San Francisco, Cal.....	433,488	12	9		
Washington, D. C.....	342,776		4		
From 200,000 to 300,000 inhabitants:					
Indianapolis, Ind.....	246,928	(1)	3		
Jersey City, N. J.....	281,497	2			
From 100,000 to 200,000 inhabitants:					
Atlanta, Ga.....	167,041	(1)	8		
Birmingham, Ala.....	150,249		45		
Cambridge, Mass.....	107,734	(1)	1		
Nashville, Tenn.....	112,774		13		
Richmond, Va.....	131,453	(1)	3		
Toledo, Ohio.....	176,798		1		

¹ The health officer states that cases are known not to be completely reported.

² From Apr. 1, 1912, to Mar. 31, 1913.

Reported Prevalence for the Year 1912 in Certain Cities—Continued.

MEASLES.

Cities.	Estimated population 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
Over 500,000 inhabitants:					
Boston, Mass.	711,128	5,666	111	7.967	1.95
Chicago, Ill.	2,294,711	6,784	119	2.956	1.75
Cleveland, Ohio.	596,970	2,230	34	3.735	1.52
Detroit, Mich.	503,445		44		
New York, N. Y.	5,064,237	39,018	671	7.704	1.72
Philadelphia, Pa.	1,606,102	2,279	50	1.418	2.19
St. Louis, Mo.	712,027	16,549	173	9.197	1.11
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.	387,543	2,715	34	7.005	1.25
Los Angeles, Cal.	386,014	253	1	.655	.39
Milwaukee, Wis.	400,279	2,316	25	5.785	1.07
Newark, N. J.	369,317	818	28	2.214	3.42
New Orleans, La.	350,695	324	2	.923	.61
San Francisco, Cal.	433,488	3,451	47	7.961	1.36
Washington, D. C.	342,776	1,638	7	4.778	.42
From 200,000 to 300,000 inhabitants:					
Denver, Colo.	230,249	272	1	.313	1.39
Indianapolis, Ind.	246,928	3,556	12	14.400	.33
Jersey City, N. J.	281,497	650		2.309	
Providence, R. I.	235,222	492	77	2.091	15.65
Rochester, N. Y.	230,414	2,002	28	8.694	1.39
St. Paul, Minn.	266,300	282	1	1.058	.35
Seattle, Wash.	277,420	474		1.708	
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.	101,726	437	2	4.295	.45
Atlanta, Ga.	167,041		6		
Birmingham, Ala.	150,249	868	9	5.777	1.03
Bridgeport, Conn.	108,999	64	4	.587	6.25
Cambridge, Mass.	107,734	1,015	10	9.421	.98
Columbus, Ohio.	193,822	1,118	23	5.768	2.05
Dayton, Ohio.	120,364	643	7	5.342	1.08
Fall River, Mass.	122,521	31	1	.253	3.22
Grand Rapids, Mich.	118,163	117		.990	
Hartford, Conn.	103,177	2,663	12	6.425	1.81
Lowell, Mass.	108,768	862	50	7.925	5.80
Nashville, Tenn.	112,774	20	1	.177	5.00
Omaha, Nebr.	128,912	26		.201	
Richmond, Va.	131,453	851	1	6.473	.12
Salt Lake City, Utah.	101,207	1,074	2	10.611	.18
Spokane, Wash.	120,994	1,133	6	9.364	.53
Syracuse, N. Y.	143,602	605	7	4.213	1.15
Toledo, Ohio.	176,798	1,350	27	7.635	2.00
Trenton, N. J.	102,071	59	7	.578	11.86
Worcester, Mass.	152,150	405	17	2.661	4.19

MENINGITIS (EPIDEMIC CEREBROSPINAL).

Over 500,000 inhabitants:					
Boston, Mass.	711,128	57	36	0.080	63.15
Chicago, Ill.	2,294,711	249	40	.021	81.63
Cleveland, Ohio.	596,970	31	30	.051	96.77
New York, N. Y.	5,064,237	250	196	.049	78.40
Philadelphia, Pa.	1,606,102	29	15	.018	51.72
St. Louis, Mo.	712,027	161	140	.085	65.57
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.	387,543	78	40	.201	51.28
Los Angeles, Cal.	386,014	16	29		
Milwaukee, Wis.	400,279		22		
Newark, N. J.	369,317	7	5	.018	71.42
New Orleans, La.	350,695	63	44	.179	69.84
San Francisco, Cal.	433,488	15	3	.034	20.00
Washington, D. C.	342,776	7	4	.020	57.14
From 200,000 to 300,000 inhabitants:					
Denver, Colo.	230,249	27	13	.117	48.14
Indianapolis, Ind.	246,928	3	2	.012	66.66
Jersey City, N. J.	281,497	9		.031	
Providence, R. I.	235,222		11		
Rochester, N. Y.	230,414	11	9	.047	81.81

¹ From Apr. 1, 1912, to Mar. 31, 1913.² The health officer states that cases are known not to be completely reported.

Reported Prevalence for the Year 1912 in Certain Cities—Continued.

MENINGITIS (EPIDEMIC CEREBROSPINAL)—Continued.

Cities.	Estimated population 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.	101,726	1	1	0.009	100.00
Atlanta, Ga.	167,041	(1)	9	.....	.....
Birmingham, Ala.	150,249	8	13	.....	.....
Bridgeport, Conn.	108,999	19	12	.....	.....
Cambridge, Mass.	107,734	5	.....	.046	.....
Dayton, Ohio.	120,364	13	62	.....	.....
Fall River, Mass.	122,521	15	4	.041	80.00
Grand Rapids, Mich.	118,163	11	11	.....	.....
Lowell, Mass.	108,768	6	6	.055	100.00
Nashville, Tenn.	112,774	97	46	.860	47.42
Omaha, Nebr.	128,912	10	4	.077	40.00
Spokane, Wash.	120,994	7	.....	.057	.....
Syracuse, N. Y.	143,602	2	.....	.013	.....
Worcester, Mass.	152,150	11	8	.072	72.72

POLIOMYELITIS (INFANTILE PARALYSIS).

Over 500,000 inhabitants:					
Boston, Mass.	711,128	27	5	0.037	18.51
Chicago, Ill.	2,294,711	135	18	.058	13.33
Cleveland, Ohio.	596,970	113	.....	.189	.....
New York, N. Y.	5,064,237	504	70	.099	13.88
Philadelphia, Pa.	1,606,102	45	10	.028	22.22
St. Louis, Mo.	712,027	237	22	.051	5.40
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.	387,543	8	5	.020	62.50
Los Angeles, Cal.	386,014	256	49	.663	19.14
Milwaukee, Wis.	400,279	.....	5	.....	.....
Newark, N. J.	369,317	10	7	.027	70.00
New Orleans, La.	350,695	9	1	.025	11.11
San Francisco, Cal.	433,488	16	2	.036	12.50
Washington, D. C.	342,776	9	4	.026	44.44
From 200,000 to 300,000 inhabitants:					
Indianapolis, Ind.	246,928	10	3	.040	30.00
Providence, R. I.	235,222	4	1	.017	25.00
Rochester, N. Y.	230,414	18	3	.078	16.66
St. Paul, Minn.	266,300	.....	2	.....	.....
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.	101,726	1	1	.009	100.00
Atlanta, Ga.	167,041	.....	.....	.....	.....
Birmingham, Ala.	150,249	7	2	.046	28.57
Bridgeport, Conn.	108,999	.....	2	.....	.....
Cambridge, Mass.	107,734	2	.....	.018	.....
Columbus, Ohio.	193,822	2	.....	.010	.....
Fall River, Mass.	122,521	2	.....	.016	.....
Grand Rapids, Mich.	118,163	7	1	.059	14.28
Lowell, Mass.	108,768	9	3	.082	33.33
Richmond, Va.	131,453	1	.....	.008	.....
Syracuse, N. Y.	143,602	2	.....	.014	.....
Worcester, Mass.	152,150	5	.....	.033	.....

SCARLET FEVER.

Over 500,000 inhabitants:					
Boston, Mass.	711,128	1,153	32	1.621	2.78
Chicago, Ill.	2,294,711	8,703	602	3.792	6.92
Cleveland, Ohio.	596,970	1,479	99	2.478	6.69
Detroit, Mich.	503,445	1,380	57	2.741	4.13
New York, N. Y.	5,064,237	12,716	615	2.511	4.84
Philadelphia, Pa.	1,606,102	2,872	113	1.788	3.93
St. Louis, Mo.	712,027	21,066	236	1.499	3.38
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.	387,543	922	38	2.382	4.12
Los Angeles, Cal.	386,014	450	6	1.366	1.33
Milwaukee, Wis.	400,279	1,022	57	2.553	5.58
Newark, N. J.	369,317	699	11	1.893	1.57
New Orleans, La.	350,695	352	12	1.004	3.41
San Francisco, Cal.	433,488	192	1	.443	.52
Washington, D. C.	342,776	259	4	.756	1.54

¹ The health officer states that cases are known not to be completely reported.² From Apr. 1, 1912, to Mar. 31, 1913.

Reported Prevalence for the Year 1912 in Certain Cities—Continued.

SCARLET FEVER—Continued.

Cities.	Estimated population 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
From 200,000 to 300,000 inhabitants:					
Denver, Colo.	230,249	440	18	1.911	4.09
Indianapolis, Ind.	246,928	333	9	1.349	2.70
Jersey City, N. J.	281,497	447	.....	1.588	.....
Providence, R. I.	235,222	733	29	3.116	3.96
Rochester, N. Y.	230,414	392	27	1.701	6.88
St. Paul, Minn.	266,300	180	8	.676	4.44
Seattle, Wash.	277,420	139	1	.501	.72
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.	101,726	26	.....	.256	.....
Atlanta, Ga.	167,041	1 124	1	.742	.81
Birmingham, Ala.	150,249	102	2	.679	1.61
Bridgeport, Conn.	108,999	246	17	2.257	6.91
Cambridge, Mass.	107,734	157	2	1.457	1.27
Columbus, Ohio.	193,822	525	5	2.709	.95
Dayton, Ohio.	120,364	83	2	.690	2.41
Fall River, Mass.	122,521	156	7	1.273	4.49
Grand Rapids, Mich.	118,163	146	1	1.236	.68
Hartford, Conn.	103,177	392	21	3.799	5.36
Lowell, Mass.	138,768	873	6	8.026	.69
Nashville, Tenn.	112,774	115	1	1.020	.86
New Bedford, Mass.	104,302	141	.....	1.352	.....
Omaha, Nebr.	128,912	60	6	.466	10.00
Richmond, Va.	134,453	326	1	2.480	.31
Salt Lake City, Utah.	101,207	159	.....	1.572	.....
Spokane, Wash.	120,994	93	2	.769	2.15
Syracuse, N. Y.	143,602	613	9	4.269	1.47
Toledo, Ohio.	176,798	344	17	1.946	4.95
Trenton, N. J.	102,071	1 143	2	1.401	1.40
Worcester, Mass.	152,150	329	11	2.163	3.34

SMALLPOX.

Over 500,000 inhabitants:					
Chicago, Ill.	2,294,711	68	7	0.030	10.29
Cleveland, Ohio.	596,970	11	1	.019	9.09
Detroit, Mich.	503,445	209	.....	.415	.....
New York, N. Y.	5,064,237	22	2	.004	9.09
Philadelphia, Pa.	1,606,102	9	1	.006	11.11
St. Louis, Mo.	712,027	2 33	.....	.046	.....
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.	387,543	34	.....	.088	.....
Los Angeles, Cal.	386,014	122	10	.316	8.20
Milwaukee, Wis.	400,279	54	.....	.135	.....
Newark, N. J.	369,317	4	.....	.011	.....
New Orleans, La.	350,695	215	.....	.613	.....
San Francisco, Cal.	433,488	106	1	.245	.95
Washington, D. C.	342,776	9	.....	.026	.....
From 200,000 to 300,000 inhabitants:					
Denver, Colo.	230,249	48	.....	.209	.....
Indianapolis, Ind.	246,928	61	.....	.248	.....
Jersey City, N. J.	281,497	1	.....	.004	.....
Rochester, N. Y.	230,414	42	.....	.182	.....
St. Paul, Minn.	266,300	636	1	2.388	.16
Seattle, Wash.	277,420	26	.....	.094	.....
From 100,000 to 200,000 inhabitants:					
Atlanta, Ga.	167,041	1 54	.....	.324	.....
Birmingham, Ala.	150,249	79	.....	.526	.....
Columbus, Ohio.	193,822	12	.....	.062	.....
Dayton, Ohio.	120,364	152	.....	1.263	.....
Grand Rapids, Mich.	118,163	1	.....	.009	.....
Nashville, Tenn.	112,774	4	.....	.036	.....
Omaha, Nebr.	128,912	26	.....	.202	.....
Richmond, Va.	131,453	37	1	.282	2.70
Salt Lake City, Utah.	101,207	885	1	8.745	.11
Spokane, Wash.	120,994	283	.....	2.339	.....
Syracuse, N. Y.	143,602	5	.....	.035	.....
Toledo, Ohio.	176,798	76	.....	.430	.....

¹ The health officer states that cases are known not to be completely reported.² From Apr. 1, 1912, to Mar. 31, 1913.

Reported Prevalence for the Year 1912 in Certain Cities—Continued.

TUBERCULOSIS.

Cities.	Estimated population 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
Over 500,000 inhabitants:					
Boston, Mass.....	711,128	3,322	1,093	4.671	32.90
Chicago, Ill.....	2,294,711	7,512	3,750	3.274	49.92
Cleveland, Ohio.....	596,970	1,430	792	2.395	55.39
Detroit, Mich.....	503,445	.....	491	.....	.....
New York, N. Y.....	5,064,237	22,752	8,591	4.493	37.76
Philadelphia, Pa.....	1,606,102	4,593	2,654	2.860	57.79
St. Louis, Mo.....	712,027	12,033	1,953	2.855	46.88
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.....	387,543	1,624	856	4.191	52.71
Los Angeles, Cal.....	386,014	1,486	937	3.850	63.06
Milwaukee, Wis.....	400,279	872	327	2.179	37.50
Newark, N. J.....	369,317	1,783	660	4.701	37.02
New Orleans, La.....	350,695	1,519	936	4.331	61.62
San Francisco, Cal.....	433,488	1,238	693	2.856	55.98
Washington, D. C.....	342,776	1,245	837	3.632	67.23
From 200,000 to 300,000 inhabitants:					
Denver, Colo.....	230,249	.....	593	.....	.....
Indianapolis, Ind.....	246,928	523	359	2.110	68.65
Jersey City, N. J.....	281,497	675	.....	2.398	.....
Providence, R. I.....	235,222	2,270	339	.....	.....
Rochester, N. Y.....	230,414	2,300	235	1.341	76.06
St. Paul, Minn.....	266,300	.....	288	.....	.....
Seattle, Wash.....	277,420	328	200	1.182	60.98
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.....	101,726	368	228	3.618	61.96
Atlanta, Ga.....	167,041	.....	324	.....	.....
Birmingham, Ala.....	150,249	413	322	2.749	83.97
Bridgeport, Conn.....	108,999	174	107	1.597	61.50
Cambridge, Mass.....	107,734	273	162	2.534	59.35
Columbus, Ohio.....	193,822	332	281	1.713	84.64
Dayton, Ohio.....	120,364	235	166	.....	.....
Fall River, Mass.....	122,521	264	155	2.155	58.72
Grand Rapids, Mich.....	118,163	127	104	1.075	81.89
Hartford, Conn.....	103,177	252	70	2.443	27.78
Lowell, Mass.....	108,768	167	151	1.535	94.02
Nashville, Tenn.....	112,774	244	218	2.164	91.35
New Bedford, Mass.....	104,302	295	145	2.828	49.16
Omaha, Nebr.....	128,912	28	111	.....	.....
Richmond, Va.....	131,453	334	321	2.361	96.11
Seranton, Pa.....	135,894	272	62	.530	86.11
Spokane, Wash.....	120,994	272	62	.595	86.11
Syracuse, N. Y.....	143,602	235	140	1.637	59.58
Toledo, Ohio.....	176,798	278	260	.....	.....
Trenton, N. J.....	102,071	2,376	216	3.684	57.45
Worcester, Mass.....	152,150	301	150	1.978	49.83

TYPHOID FEVER.

Over 500,000 inhabitants:					
Boston, Mass.....	711,128	460	57	0.647	12.39
Chicago, Ill.....	2,294,711	1,051	173	.458	16.46
Cleveland, Ohio.....	596,970	271	38	.454	14.02
Detroit, Mich.....	503,445	.....	93	.....	.....
New York, N. Y.....	5,064,237	3,076	499	.607	16.22
Philadelphia, Pa.....	1,606,102	1,514	200	.942	13.21
St. Louis, Mo.....	712,027	1,511	175	.718	14.68
From 300,000 to 500,000 inhabitants:					
Cincinnati, Ohio.....	387,543	187	28	.483	14.98
Los Angeles, Cal.....	386,014	309	47	.800	15.21
Milwaukee, Wis.....	400,279	593	99	1.481	16.70
Newark, N. J.....	369,317	193	26	.523	13.48
New Orleans, La.....	350,695	261	49	.744	18.78
San Francisco, Cal.....	433,488	336	58	.775	17.26
Washington, D. C.....	342,776	585	78	1.707	13.33
From 200,000 to 300,000 inhabitants:					
Denver, Colo.....	230,249	498	30	2.163	6.02
Indianapolis, Ind.....	246,928	308	45	1.247	14.61
Jersey City, N. J.....	281,497	59	.....	.210	.....
Providence, R. I.....	235,222	206	24	.876	11.65
Rochester, N. Y.....	230,414	89	23	.386	25.84
St. Paul, Minn.....	266,300	2,124	23	.466	18.55
Seattle, Wash.....	277,420	149	20	.537	13.42

¹ From Apr. 1, 1912, to Mar. 31, 1913.² The health officer states that cases are known not to be completely reported.

Reported Prevalence for the Year 1912 in Certain Cities—Continued.

TYPHOID FEVER—Continued.

Cities.	Estimated population 1912.	Cases.	Deaths.	Case rate per 1,000 inhabitants.	Fatality rate per 100 cases.
From 100,000 to 200,000 inhabitants:					
Albany, N. Y.	101,726	70	18	.688	25.71
Atlanta, Ga.	167,041	¹ 268	59	1.604	22.01
Birmingham, Ala.	150,249	490	56	3.261	11.43
Bridgeport, Conn.	108,999	58	8	.532	13.80
Cambridge, Mass.	107,734	55	5	.511	9.09
Columbus, Ohio	193,822	272	39	1.403	14.34
Dayton, Ohio.	120,364	56	22	.465	39.29
Fall River, Mass.	122,521	101	22	.824	21.78
Grand Rapids, Mich.	118,163	316	40	2.674	12.66
Hartford, Conn.	103,177	76	4	.737	5.26
Lowell, Mass.	108,768	86	10	.791	11.63
Nashville, Tenn.	112,774	222	36	1.969	16.22
New Bedford, Mass.	104,302	117	18	1.122	15.38
Omaha, Nebr.	128,912	71	17	.551	23.94
Richmond, Va.	131,453	208	22	1.582	10.58
Salt Lake City, Utah.	101,207	163	17	1.611	10.43
Spokane, Wash.	120,994	129	20	1.066	15.50
Syracuse, N. Y.	143,602	¹ 92	24	.641	26.09
Toledo, Ohio.	176,798	¹ 263	58	1.488	22.05
Trenton, N. J.	102,071	109	20	1.068	18.35
Worcester, Mass.	152,150	70	5	.460	7.14

LEPROSY.

Hartford, Conn.	103,163	1	.....	.....
Indianapolis, Ind.	246,928	1	1	.....
Los Angeles, Cal.	386,014	2	1	.....
New Bedford, Mass.	104,302	2	.....	.....
New Orleans, La.	350,695	10	.....	.....
New York, N. Y.	5,064,237	2	1	.....
Providence, R. I.	235,222	1	.....	.....
San Francisco, Cal.	433,488	2	.....	.....
Spokane, Wash.	120,994	1	.....	.....

RABIES.

Chicago, Ill.	2,294,711	.....	8	.....
Cleveland, Ohio.	596,970	.....	2	.....
Columbus, Ohio.	193,822	2	.....	.....
Indianapolis, Ind.	246,928	.....	1	.....
Jersey City, N. J.	281,497	1	.....	.....
Los Angeles, Cal.	386,014	1	1	.....
Nashville, Tenn.	112,774	1	.....	.....
Newark, N. J.	369,317	2	2	.....
New Orleans, La.	350,695	.....	1	.....
New York, N. Y.	5,064,237	4	5	.....
Philadelphia, Pa.	1,606,102	1	1	.....
St. Louis, Mo.	712,027	² 2	² 2	.....
San Francisco, Cal.	433,488	6	6	.....

¹ The health officer states that cases are known not to be completely reported.² From Apr. 1, 1912, to Mar. 31, 1913.